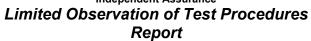


Utah Department of Transportation

Region Materials Lab

Independent Assurance





Technician:	Qualification #:	
IA Observer:	Date:	
Tests Performed:	Project Engineer:	
Laboratory or Field Loc	cation:	
	Comments on Apparatus	
	Comments on Materials	
	Comments on Procedures	
Tests Performed According to I		No
If "No" was discrepancy correc Split sample date:	ted? Yes	No
X . X G .		
IAI Signature		
Technician Signature		
	Region Materials Engin	eer



Utah Department of Transportation

Region Materials Lab Independent Assurance

Nuclear Density Correlations

AASHTO T 310

Technic Qualificati				Date Sampled			Time
-				Station			
Technic				Offset			
Qualificati				Gauge 2 #			
IA Inspe				Calibration date			
Gaug				DS:		N	MS:
Calibration	date						
	DS:	MS:					
Rating				Rating			
	Tech 1	Tech 2	Difference		Tech 1	Tech 2	Difference
Depth				Depth			
DC/MC				DC/MC			
Dry Density			0.0	Dry Density			0.0
Wet Density			0.0	Wet Density			0.0
Moisture lbs.			0.0	Moisture lbs.			0.0
Moisture %			0.0	Moisture %			0.0
Compaction %	ó		0.0	Compaction %			0.0
Rating	Tech 1	Took 2	Difference	Rating	Tech 1	Tech 2	Difference
Depth	Tech	Tech 2	Dillerence	Depth	Tech	Tech 2	Difference
DC/MC				DC/MC			
Dry Density			0.0	Dry Density			0.0
Wet Density			0.0	Wet Density			0.0
Moisture lbs.			0.0	Moisture lbs.			0.0
Moisture %			0.0	Moisture %			0.0
Compaction %	,		0.0	Compaction %			0.0
Testing Prod		1			1	1	
AASHTO T 310					ch 1		
Gauge turned on 20 mins. prior to testing		Te	ch 2				
Daily Standard co		oriately			IAI		
Test Location Selected appropriately (30 ft. from other radioactive sources,			Overa	all Rating] <u>:</u>		
10 ft. from large objects, 6" from vertical projections) Flat, smooth area prepared, loose disturbed material removed			Remarks	·			
Surface voids fille Hole driven 2" dee Gauge firmly seat	d with native eper than mated, and pulle	fines aterial to be to ed back so so	ested ource rod is against hole				
Two one minute o		_					
Moisture sample (Dry Density calcul	,				Region 1	Materials	Engineer

Nan	ne			
	Qualification #	Date		
IGN	TERMINING THE ASPHALT BINDER CONTENT OF HOT MIX AS ITION METHOD P FOR AASHTO T 308	SPHALT	(HMA) BY	ГНЕ
	ts Performed According to Procedure? Oven at correct temperature 538°C (1000°F) or correction Factor temperature?	Yes	No	
2.	Sample reduced to correct size?			
3.	Mass of sample basket assembly recorded to 0.1 g?			
4.	With pan below basket(s) sample evenly distributed in basket(s)?			
5.	Sample conforms to the required mass and mass recorded to 0.1 g?			
6.	nitial mass entered into furnace controller?			
7.	Sample correctly placed into furnace?			
8.	Test continued until stable indicator signals?			
9.	Uncorrected binder content obtained on printed ticket?			
10.	Sample mass determined to nearest 0.1 g.?			
If "]	No" was discrepancy corrected? Yes No Date of "Split Sample"			
			- - -	
	Signature of Examiner		_	

Na	me			
	Qualification #	Date		
MI	IEORETICAL MAXIMUM SPECIFIC GRAVITY AND DENSITY O XTURES OP FOR AASHTO T 209	F BITUMIN	IOUS PAVII	NG
Те 1.	sts Performed According to Procedure? Sample reduced to correct size?	Yes	No	
2.	Particles carefully separated insuring that aggregate is not fractured?			
3.	After separation, fine aggregate particles not larger than 6.4 mm (1/4in)?			
4.	Sample at room temperature?			
5.	Mass of bowl or flask & cover determined to 0.1 g?			
6.	Mass of sample and bowl or flask & cover determined to 0.1 g?			
7.	Mass of sample calculated and conforms to required size?			
8.	Water at approximately 25°C (77°F) added to cover sample?			
9.	Entrapped air removed using partial vacuum for 15 ±2 min?			
10.	Container and contents agitated continuously by mechanical device or manually by vigorous shaking at intervals of about 2 minutes?			
11.	Flask filled with water?			
12.	Flask then placed in constant temperature water bath (optional)?			
13.	Contents at $25 \pm 1^{\circ}$ C (77 $\pm 1.8^{\circ}$ F) or temperature taken and Table 2 in FOP used?			
14.	Mass of filled flask determined to 0.1 g, 10 ± 1 minutes after removal of entrapped air completed?			
15.	Flask mass with water determined to nearest 0.1 g?			
16.	Specific gravity calculated correctly and to 0.001?			
17.	Density calculated correctly and to 1 kg/m³ (0.1 lb/ft³)?			
If	"No" was discrepancy corrected? Yes No Date of "Split Sample"			
	Signature of Examiner			

N:	ıme	LIMITED OBSERVATION CHECKLIST	INE	DEPENDENT ASSURANCE
		Qualification #	Date	
S	ATL	SPECIFIC GRAVITY OF COMPACTED BITUMINOUS MIXTU RATED SURFACE-DRY SPECIMENS FOR AASHTO T 166	RES USI	NG
T 6		Performed According to Procedure? ass of dry sample in air determined.	Yes	No
	a.	Dried overnight at $52 \pm 3^{\circ}$ C ($125 \pm 5^{\circ}$ F) and at successive 2-hour intervals to constant mass?		
	b.	Cooled to room temperature, 25 ± 5 °C (77 ± 9 °F)?		
	c.	Dry mass determined to 0.1g?		
2.	Im	mersed weight determined.		
	a.	Water at $25 \pm 1^{\circ}$ C (77 $\pm 1.8^{\circ}$ F)?		
	b.	Immersed at 4 ± 1 minutes?		
	c.	Immersed weight determined to 0.1g		
3.	Sa	mple rapidly surface dried with damp cloth?		
4.	Sa	surated surface-dry (SSD) mass determined to 0.1g?		
5.	Sp	ecific Gravity calculated to 0.001?		
NO		Step 1 is not required for laboratory prepared specimens, for specimens obta p 1 may be performed last.	ined in the	field, i.e. cores,
If	"No	"was discrepancy corrected? Yes No Date of "Split Sample"		
		Signature of Examiner		

ANALYSIS OF EXTRACTED AGGREGATE	Date	
	Yes	No
n container and covered with water?		
dded?		
tainer agitated vigorously?		
ared through proper nest of two sieves?		
ued until wash water is clear and no wetting agent remaining?		
washing determined to 0.1 g?		
on specified sieves?		
•		
*		
		_
	According to Procedure? determined to 0.1 g s with sample mass after ignition (M_f) from 8 within 0.1% of M_f ? In container and covered with water? dded? tainer agitated vigorously? ured through proper nest of two sieves? used until wash water is clear and no wetting agent remaining? all coarser than 75 μ m (No. 200) dried to constant mass $10\pm9^{\circ}F$)? washing determined to 0.1 g? on specified sieves? action of aggregate, including minus 75 μ m (No. 200), recorded to 0.1 g? on each sieve determined correctly to the nearest 0.1% on the 75 μ m (No. 200)? on each sieve reported correctly to the nearest 1% on the 75 μ m (No. 200)? not sieve masses check total washed dry mass to ent?	determined to $0.1\mathrm{g}$ so with sample mass after ignition ($\mathrm{M_f}$) from 8 within 0.1% of $\mathrm{M_f}$? In container and covered with water? dded? Itainer agitated vigorously? Intered through proper nest of two sieves? Intered through

Name		
Qualification #	Date	:
GYRATORY COMPACTION OF HMA MIXTURES FOP FOR AASHTO T 312		
Tests Performed According to Procedure?	Yes	No
1. Aged mix brought to compaction temperature?		
2. Base and upper plate of the mold heated to compaction temperature?		
3. Paper disks placed on top and bottom?		
4. Mix poured into mold all at once?		
5. Pressure applied at 600 kPa ±18 kPa?		
6. Specified number of gyrations applied?		
7. Compacted specimen removed from mold and allowed to cool to room temperature?	n 	
8. Sample correct height at required gyrations (115 ±5mm)?		
9. Corrected relative density calculated correctly?		
If "No" was discrepancy corrected? Yes No Date of "Split Sample"		- -
		- -
Signature of Examiner		